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TITLE: Extraction of glutamic acid from culture medium;
purification from fermentation broth by cation-exchange
chromatography and crystallization, and utilization of
waste as a fertilizer

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AB In a new method, glutamic acid is extracted from
culture broth with increased efficiency by acidification to pH 0.8-1.2
with nitric acid, and adsorption on a strong cation-exchanger, followed
by washing, elution with alkali solution and crystallization to yield a
product. The spent culture broth, wash water and mother
liquor from the crystallization stage are combined, neutralized
with KOH and dried, to yield a potassium and nitrogen fertilizer
. The method gives increased product yield and utilization of
waste-products. (3pp)